





PAGER

Version 3

10,000

100,000

1,000

M 4.3, 6 km W of Arcadia, Oklahoma

Origin Time: 2024-01-13 03:46:27 UTC (Fri 21:46:27 local) Location: 35.6694° N 97.3892° W Depth: 3.0 km

Estimated Fatalities 69% 100 10,000 100,000 1,000

and economic losses. There is a low likelihood of casualties and damage.

Created: 2 hours, 9 minutes after earthquake Green alert for shaking-related fatalities Estimated Economic Losses 30%



ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	3,683k	314k	17k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 95.0°W 97.2°W Winfield Arkansas City 36.9.° N Bartlesville Ponca City Stillwater Guthrie 35.8 ° N mond Okmulgee klahoma City Henryetta Ardmore Ш

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/ok2024awfn#pager

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

100

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-02-15	310	4.6	IV(8k)	_
1997-09-06	141	4.5	V(3k)	_

Selected City Exposure

from GeoNames.org MMI City Population I۷ **Edmond** 81k IV Nichols Hills 4k IV The Village 9k IV Stillwater 46k IV Jones 3k Ш Spencer 4k Ш **Oklahoma City** 580k Ш Norman 111k Ш **Broken Arrow** 99k Ш Wichita Falls 105k

Tulsa bold cities appear on map.

392k (k = x1000)